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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/750,856	01/05/2004	David Pincu	PDS-012-US1	3887
39933	7590	06/26/2006	EXAMINER	
POWERDSINE LTD. C/O LANDONIP, INC 1700 DIAGONAL ROAD, SUITE 450 ALEXANDRIA, VA 22314-2866			KAPLAN, HAL IRA	
			ART UNIT	PAPER NUMBER
			2836	

DATE MAILED: 06/26/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/750,856

Applicant(s)

PINCU ET AL.

Examiner

Hal I. Kaplan

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 05 January 2004.
2a) ☐ This action is **FINAL**. 2b) ☐ This action is non-final.
3) ☒ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-40 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☒ Claim(s) 1-19 and 21-40 is/are allowed.
6) ☐ Claim(s) _____ is/are rejected.
7) ☒ Claim(s) 20 is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
10) ☒ The drawing(s) filed on 05 January 2004 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 6/1/04, 11/30/05, 5/11/06
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: Paragraph 12, lines 1-2, the end of the sentence is omitted. Paragraph 213, line 11 contains the phrase "power of Ethernet". It appears this should be "power over Ethernet". Paragraph 254, line 4 contains the phrase "1104, 1106 and 240". It appears this should be "1104, 1106 and 1240". Paragraph 287, line 2 contains the phrase "SIUs 300". It appears this should be "SIUs 1300". Paragraph 426, lines 5-6 contain the phrase "current sensor 1840". It appears this should be "current sensor 1580". Paragraph 469, lines 9-10 contain the phrase "demand from of electrical load of the node". This is not proper idiomatic English, and it is not clear what this means.

Appropriate correction is required.

2. The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Drawings

3. The drawings are objected to because of the following informalities: Figures 18A, 18B, 19A, and 19B contain the phrase "Ethernet Switch with POL". It appears this should be "Ethernet Switch with POE". In Figures 22A, 22B, 24A, and 24B, filter 1830 does not contain the correct electrical symbol for a capacitor. A battery is shown. Figure 23A contains the phrase "to/from PSC 340,345". It appears this should be

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"to/from PSC 1340,1345". Paragraph 431, lines 10-13 state that possible modifications of the voltage current relationship are represented by various curves drawn in dashed lines in Figure 26A. These curves do not appear in Figure 26A. Figure 27 contains the phrase "to/from power bus 210". It appears this should be "to/from power bus 1210".

4. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "1026" has been used to designate both the printer and the computer in Figure 16; reference character "1104" has been used to designate both the file server and the Ethernet switch in Figure 18A; reference character "1450" has been used to designate both SIUs and OPCs in Figure 19A; reference character "1350" has been used to designate both the IP phone gateway internal bus and the gateway circuitry in Figure 19B; reference character "3360" has been used to designate both the "interrogate PSC parameters" and "are results ok" stages in Figure 31; and reference character "3920" has been used to designate both "accept assigned node" stages in Figure 35.

5. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 238 in Figure 2; 338 in Figure 3; 538 in Figure 5; 840 in Figure 8; 990 in Figure 10; 1028 in Figure 16; 1260 in Figure 18A; 1400 in Figure 19B; 1330 in Figure 25A; and 3940 in Figure 35.

6. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 1338 in Figure 13B; 1375 in Figure 18A; 912 and 1376 in Figure 18B; 1033

in Figure 19B; 1333 in Figure 27C; and V_{NOM} in Figure 28A. Corrected drawing sheets in compliance with 37 CFR 1.121(d), or amendment to the specification to add the reference character(s) in the description in compliance with 37 CFR 1.121(b) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Objections

7. Claim 20 is objected to because of the following informalities: Claim 20, lines 1-2 contain the phrase "at least one of said DC electrical power interconnections". It appears this should be "said DC electrical power interconnections", as the arrangement applies to the interconnections as a whole. Appropriate correction is required.

Allowable Subject Matter

8. Claims 1-19 and 21-40 allowed.

9. The following is an examiner's statement of reasons for allowance:

Claims 1-19 and 21-40 are allowed because none of the prior art of record discloses or suggests both (1) a plurality of DC electrical power consuming and providing entities having a first mode in which they provide more power than they

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consume and a second mode in which they consume more power than they provide; and (2) a pooling controller operative to vary at least one of voltage, output impedance and current of electrical power provided by at least one of the plurality of power consuming and providing entities, rather than simply connect and disconnect, or turn on and off, the entities as needed to keep the total output power constant, in combination with the remaining claimed features.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The US patent application publication of Wilson et al. (2003/0187550) discloses a similar system.

11. This application is in condition for allowance except for the following formal matters:

The disclosure is objected to because of the following informalities: Paragraph 12, lines 1-2, the end of the sentence is omitted. Paragraph 213, line 11 contains the phrase "power of Ethernet". It appears this should be "power over Ethernet". Paragraph 254, line 4 contains the phrase "1104, 1106 and 240". It appears this should be "1104, 1106 and 1240". Paragraph 287, line 2 contains the phrase "SIUs 300". It appears this should be "SIUs 1300". Paragraph 426, lines 5-6 contain the phrase

“control signal 1840”. It appears this should be “control signal 1580”. Paragraph 469, lines 9-10 contain the phrase “demand from of electrical load of the node”. This is not proper idiomatic English, and it is not clear what this means.

The drawings are objected to because of the following informalities: Figures 18A, 18B, 19A, and 19B contain the phrase “Ethernet Switch with POL”. It appears this should be “Ethernet Switch with POE”. Figure 23A contains the phrase “to/from PSC 340,345”. It appears this should be “to/from PSC 1340,1345”. Paragraph 431, lines 10-13 state that possible modifications of the voltage current relationship are represented by various curves drawn in dashed lines in Figure 26A. These curves do not appear in Figure 26A. Figure 27 contains the phrase “to/from power bus 210”. It appears this should be “to/from power bus 1210”.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character “1026” has been used to designate both the printer and the computer in Figure 16; reference character “1104” has been used to designate both the file server and the Ethernet switch in Figure 18A; reference character “1450” has been used to designate both SIUs and OPCs in Figure 19A; reference character “1350” has been used to designate both the IP phone gateway internal bus and the gateway circuitry in Figure 19B; reference character “3360” has been used to designate both the “interrogate PSC parameters” and “are results ok” stages in Figure 31; and reference character “3920” has been used to designate both “accept assigned node” stages in Figure 35.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: 238 in Figure 2; 338 in Figure 3; 538 in Figure 5; 840 in Figure 8; 990 in Figure 10; 1028 in Figure 16; 1260 in Figure 18A; 1400 in Figure 19B; 1330 in Figure 25A; and 3940 in Figure 35.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference character(s) not mentioned in the description: 1338 in Figure 13B; 1375 in Figure 18A; 912 and 1376 in Figure 18B; 1033 in Figure 19B; 1333 in Figure 27C; and V_{NOM} in Figure 28A.

Claim 20 is objected to because of the following informalities: Claim 20, lines 1-2 contain the phrase "at least one of said DC electrical power interconnections". It appears this should be "said DC electrical power interconnections", as the arrangement applies to the interconnections as a whole.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.


Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hal I. Kaplan whose telephone number is 571-272-8587. The examiner can normally be reached on M-F 8:30-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on 571-272-2800 x36. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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ROBERT L. DEBERADINIS
PRIMARY EXAMINER